

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| S18   | 2310 | ((filter\$1 or equaliz\$3 or equalis\$3 or fir) near7 ((updat\$3 or adjust\$3 or calibrat\$3) near3 (coefficient\$1 or tap\$1)) with error)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2007/12/26 14:18 |
| S19   | 216  | ((filter\$1 or equaliz\$3 or equalis\$3 or fir) near7 ((updat\$3 or adjust\$3 or calibrat\$3) near3 (coefficient\$1 or tap\$1)) near8 error near8 data)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2007/12/26 10:00 |
| S20   | 0    | ((filter\$1 or equaliz\$3 or equalis\$3 or fir) near7 ((updat\$3 or adjust\$3 or calibrat\$3) near3 (coefficient\$1 or tap\$1)) near8 error near8 data) same ((first adj1 (filter or equalizer)) with (second adj1 (filter\$1 or equalizer)) same (third adj1 (filter\$1 or equalizer\$1)))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2007/12/26 10:01 |
| S21   | 54   | ((filter\$1 or equaliz\$3 or equalis\$3 or fir) near7 ((updat\$3 or adjust\$3 or calibrat\$3) near3 (coefficient\$1 or tap\$1)) near8 error near8 data) same ((first adj1 (filter or equalizer)) second (second adj1 (filter\$1 or equalizer)) same (third adj1 (filter\$1 or equalizer\$1))) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2007/12/26 10:11 |
| S22   | 35   | ((filter\$1 or equaliz\$3 or equalis\$3 or fir) near7 ((updat\$3 or adjust\$3 or calibrat\$3) near3 (coefficient\$1 or tap\$1)) near8 error) same ((filter or equalizer) near3 (subtract\$3 or difference) near3 error)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2007/12/26 10:20 |
| S23   | 18   | ((filter\$1 or equaliz\$3 or equalis\$3 or fir) near7 ((updat\$3 or adjust\$3 or calibrat\$3) near3 (coefficient\$1 or tap\$1)) near8 error) and ((filter or equalizer) near3 (target or ideal)) and ((filter or equalizer) near3 expected)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2007/12/26 10:29 |
| S24   | 1747 | ((filter\$1 or equaliz\$3 or equalis\$3 or fir) near7 ((updat\$3 or adjust\$3 or calibrat\$3) near3 (coefficient\$1 or tap\$1)) near8 error) and ((matched ajd1 filter) with error)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2007/12/26 11:18 |
| S25   | 1    | ("20030112861").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR               | OFF     | 2007/12/26 10:41 |

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|     |      |   |   |    |     |                  |
|-----|------|---|---|----|-----|------------------|
| S26 | 1    | ("6144710").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2007/12/26 10:42 |
| S27 | 1494 | ((filter\$1 or equaliz\$3 or equalis\$3 or fir) near7 ((updat\$3 or adjust\$3 or calibrat\$3) near3 (coefficient\$1 or tap\$1)) near8 error) same ((matched adj1 filter) with error)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/12/26 11:19 |
| S28 | 4    | ((filter\$1 or equaliz\$3 or equalis\$3 or fir) near7 ((updat\$3 or adjust\$3 or calibrat\$3) near3 (coefficient\$1 or tap\$1)) near8 error) same ((matched adj1 filter) with error)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/12/26 11:22 |
| S29 | 20   | ((filter\$1 or equaliz\$3 or equalis\$3 or fir) near7 ((updat\$3 or adjust\$3 or calibrat\$3) near3 (coefficient\$1 or tap\$1)) near8 error) and ((matched adj1 filter) with error)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/12/26 11:27 |
| S30 | 1    | ((filter\$1 or equaliz\$3 or equalis\$3 or fir) near7 ((updat\$3 or adjust\$3 or calibrat\$3) near3 (coefficient\$1 or tap\$1)) near8 error) and ((second adj1 (filter\$1 or equalizer\$1)) with (third adj1 (filter\$1 or equaliz\$3)) with error)                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/12/26 11:56 |
| S31 | 99   | ((filter\$1 or equalizer\$1 or equaliser\$1 or fir) near7 ((updat\$3 or adjust\$3) near3 (coefficient\$1 or tap\$1 or weight\$1)) near8 error) and ((first adj2 (filter\$1 or equalizer\$1)) with (second adj2 (filter\$1 or equaliz\$3)) with error)                                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/12/26 11:59 |
| S32 | 2320 | ((filter\$1 or equaliz\$3 or equalis\$3 or fir or teq or feq) near7 ((updat\$3 or adjust\$3 or calibrat\$3) near3 (coefficient\$1 or tap\$1)) with error)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/12/26 13:52 |
| S33 | 663  | ((filter\$1 or equaliz\$3 or equalis\$3 or fir or teq or feq) near7 ((updat\$3 or adjust\$3 or calibrat\$3) near3 (coefficient\$1 or tap\$1)) with error) and ((filter\$1 or equaliz\$3 or equalis\$3 or fir or teq or feq) near7 (compar\$3 or difference or subtract\$3) near7 error) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/12/26 13:54 |

## EAST Search History

|     |     |   |   |    |    |                  |
|-----|-----|---|---|----|----|------------------|
| S34 | 272 | ((filter\$1 or equaliz\$3 or equalis\$3 or fir or teq or feq) near7 ((updat\$3 or adjust\$3 or calibrat\$3) near3 (coefficient\$1 or tap\$1)) with error) and ((filter\$1 or equaliz\$3 or equalis\$3 or fir or teq or feq) near7 (compar\$3 or difference or subtract\$3) near7 error) and (second near2 (filter\$1 or equalizer\$1))            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/26 13:57 |
| S35 | 202 | ((filter\$1 or equaliz\$3 or equalis\$3 or fir or teq or feq) near7 ((updat\$3 or adjust\$3 or calibrat\$3) near3 (coefficient\$1 or tap\$1)) with error) and ((filter\$1 or equaliz\$3 or equalis\$3 or fir or teq or feq) near7 (compar\$3 or difference or subtract\$3) near7 error) and (second adj2 (filter\$1 or equalizer\$1))             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/26 14:01 |
| S36 | 49  | ((filter\$1 or equaliz\$3 or equalis\$3 or fir or teq or feq) near7 ((updat\$3 or adjust\$3 or calibrat\$3) near3 (coefficient\$1 or tap\$1)) with error) and ((filter\$1 or equaliz\$3 or equalis\$3 or fir or teq or feq) near7 (compar\$3 or difference or subtract\$3) near7 error) and (third adj2 (filter\$1 or equalizer\$1))              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/26 14:06 |
| S37 | 16  | ((filter\$1 or equaliz\$3 or equalis\$3 or fir or teq or feq) near7 ((updat\$3 or adjust\$3 or calibrat\$3) near3 (coefficient\$1 or tap\$1)) with error) and ((filter\$1 or equaliz\$3 or equalis\$3 or fir or teq or feq) near7 (compar\$3 or difference or subtract\$3) near7 error) and ((third adj2 (filter\$1 or equalizer\$1)) with error) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/26 14:17 |
| S38 | 8   | ((filter\$1 or equaliz\$3 or equalis\$3 or fir) near7 ((updat\$3 or adjust\$3 or calibrat\$3) near3 (coefficient\$1 or tap\$1)) with error) and ((third adj2 (filter\$1 or equalizer\$1)) with (second adj2 (filter or equalizer\$1)) with error)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/26 14:23 |
| S39 | 14  | ((filter\$1 or equaliz\$3 or equalis\$3 or fir) near7 ((updat\$3 or adjust\$3 or calibrat\$3) near3 (coefficient\$1 or tap\$1))) and ((third adj2 (filter\$1 or equalizer\$1)) with (second adj2 (filter or equalizer\$1)) with error)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/26 14:27 |

## EAST Search History

|     |     |   |   |    |    |                  |
|-----|-----|---|---|----|----|------------------|
| S40 | 882 | ((filter\$1 or equaliz\$3 or equalis\$3 or fir) near7 ((updat\$3 or adjust\$3 or calibrat\$3) near3 (coefficient\$1 or tap\$1)) near7 error) and (error near3 (compar\$3 or difference or subtract\$3))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/26 14:27 |
| S41 | 295 | ((filter\$1 or equaliz\$3 or equalis\$3 or fir) near7 ((updat\$3 or adjust\$3 or calibrat\$3) near3 (coefficient\$1 or tap\$1)) near7 error) and (error near3 (compar\$3 or difference or subtract\$3) near5 (filter\$1 or equalizer\$1))                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/27 08:11 |
| S42 | 21  | ((filter\$1 or equaliz\$3 or equalis\$3 or fir) near7 ((updat\$3 or adjust\$3 or calibrat\$3) near3 (coefficient\$1 or tap\$1)) near7 error) and (error near3 (compar\$3 or difference or subtract\$3) near5 (filter\$1 or equalizer\$1) near5 (desired or target)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/26 14:45 |
| S43 | 3   | ((filter\$1 or equaliz\$3 or equalis\$3 or fir) near7 ((updat\$3 or adjust\$3 or calibrat\$3) near3 (coefficient\$1 or tap\$1)) near7 error) and (error with (target adj1 filter) near8 (subtract\$3 or difference or compar\$3) near7 (filter or equalizer))       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/26 14:50 |
| S44 | 3   | ((filter\$1 or equaliz\$3 or equalis\$3 or fir) near7 ((updat\$3 or adjust\$3 or calibrat\$3) near3 (coefficient\$1 or tap\$1)) near7 error) and (error with (target adj1 filter) near8 (subtract\$3 or difference or compar\$3))                                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/26 14:51 |
| S45 | 4   | ((filter\$1 or equaliz\$3 or equalis\$3 or fir) near7 ((updat\$3 or adjust\$3 or calibrat\$3) near3 (coefficient\$1 or tap\$1)) near7 error) and (error with (target adj1 filter))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/26 14:51 |
| S46 | 4   | ((filter\$1 or equaliz\$3 or equalis\$3 or fir) near7 ((updat\$3 or adjust\$3 or calibrat\$3) near3 (coefficient\$1 or tap\$1))) and (error with (target adj1 filter))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/26 14:51 |
| S47 | 14  | ((filter\$1 or equaliz\$3 or equalis\$3 or fir) near7 ((updat\$3 or adjust\$3 or calibrat\$3) near3 (coefficient\$1 or tap\$1)) with error) and ((target adj1 filter))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/26 14:51 |

## EAST Search History

|     |    |   |   |    |    |                  |
|-----|----|---|---|----|----|------------------|
| S48 | 21 | ((filter\$1 or equaliz\$3 or equalis\$3 or fir) near7 ((updat\$3 or adjust\$3 or calibrat\$3) near3 (coefficient\$1 or tap\$1)) near7 error) and (error near3 (compar\$3 or difference or subtract\$3) near5 (filter\$1 or equalizer\$1) near5 (desired or target)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/27 08:12 |
| S49 | 0  | (inverse adj1 filter) near3 (matched adj1 filter)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/27 08:24 |
| S50 | 10 | (inverse adj1 filter) near3 (matched adj1 filter)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/27 08:39 |
| S51 | 19 | (inverse adj1 filter) near3 (fir)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/27 08:42 |
| S52 | 10 | (inverse adj1 filter) near5 (fir or (finite adj1 impulse adj1 response)) and (micro\$1phone)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/27 08:45 |
| S53 | 1  | (inverse adj1 filter) near5 adaptive near2 (fir or (finite adj1 impulse adj1 response))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/27 08:55 |
| S54 | 5  | (inverse adj1 filter) with (error adj1 filter\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/27 08:57 |
| S55 | 0  | ((channel adj1 transfer adj1 function) near2 (filter or equalizer)) with (error adj1 filter)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/27 08:58 |
| S56 | 0  | ((channel adj1 impulse adj1 response) near2 (filter or equalizer)) with (error adj1 filter)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/27 08:59 |

## EAST Search History

|     |     |  |   |    |    |                  |
|-----|-----|--|---|----|----|------------------|
| S57 | 60  | ((inverse adj1 filter) near4 equaliz\$3)                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/27 09:00 |
| S58 | 57  | ((inverse adj1 filter) near3 equaliz\$3)                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/27 09:00 |
| S59 | 14  | ((inverse adj1 filter) near3 equaliz\$3) and micro\$1phone | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/27 10:20 |
| S60 | 0   | (equalizer near3 (exact adj1 filter))                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/27 10:20 |
| S61 | 0   | (equalizer near5 (exact adj1 filter))                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/27 10:20 |
| S62 | 0   | (equalizer near8 (exact adj1 filter))                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/27 10:21 |
| S63 | 210 | ((exact adj1 filter))                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/27 10:21 |
| S64 | 0   | ((exact adj1 filter) with (error adj1 filter))             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/27 10:21 |
| S65 | 210 | ((exact adj1 filter))                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/27 10:21 |
| S66 | 3   | ((exact adj1 filter) near6 (advantage\$1 or benefit\$1))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/27 10:23 |

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|     |    |  |   |    |    |                  |
|-----|----|--|---|----|----|------------------|
| S67 | 0  | ((exact adj1 filter) with equaliz\$3)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/27 10:23 |
| S68 | 2  | ((exact adj1 filter)) and ((updat\$3 or adjust\$3) near3 (coefficient\$1 or tap\$1) near5 (filter or equalizer)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/27 10:25 |
| S69 | 2  | ((exact adj1 filter)) and ((updat\$3 or adjust\$3) near3 (coefficient\$1 or tap\$1))                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/27 10:40 |
| S70 | 3  | ((exact adj1 filter) near5 (reduc\$3 or improv\$3 or advantage\$1 or benefit\$1))                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/27 10:41 |
| S71 | 60 | (exact adj1 filter) and receiver   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/27 10:41 |
| S72 | 60 | "exact filter" and receiver  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/27 12:57 |